

The factsheets included in this appendix provide information for each of the disposal sites proposed for the Columbia River Navigation Channel Improvements Project (the Project). Where available, each factsheet includes the size, elevation, owner and description of the site, as well as aerial and site photographs and a location map. Chapter 3 of this Biological Assessment includes additional information regarding the disposal sites. The factsheets are arranged by state (Washington/Oregon) and from the Bonneville Dam to the mouth of the Columbia River to reflect the organization of the text.

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West Hayden Island, O-105.0

Size: Approximately 102 acres

Elevation: 5 to 30 feet above Mean Sea Level

Owner: Port of Portland

Description: The property is bordered along the southwest, west, and north by deciduous forest and cattle pasture. The adjacent properties to the south contain additional pasture and forest, and a City of Portland municipal sewage treatment and pumping facility. Located approximately 500 feet south of the subject property is a Portland General Electric Company (PGE) substation. The Port has used the property for dredge material placement in the past and much of the property has been covered with material dredged from the Columbia River. The Port has leased the site for cattle grazing. Site improvements include a dredge material retention pond, an unimproved dirt road, and wire fencing for the cattle operation. In the past, WCT operated a heavy equipment training school on two separate portions of the property. That school is now at Austin Point (W-86.5).

An approximately 1,000-foot-long, 20- to 50-foot-wide retention pond is located along the northwest portion of the property. Although one well is located on the site, there is no water service to the property.





Gateway 3, W-101.0

Size: 69 acres

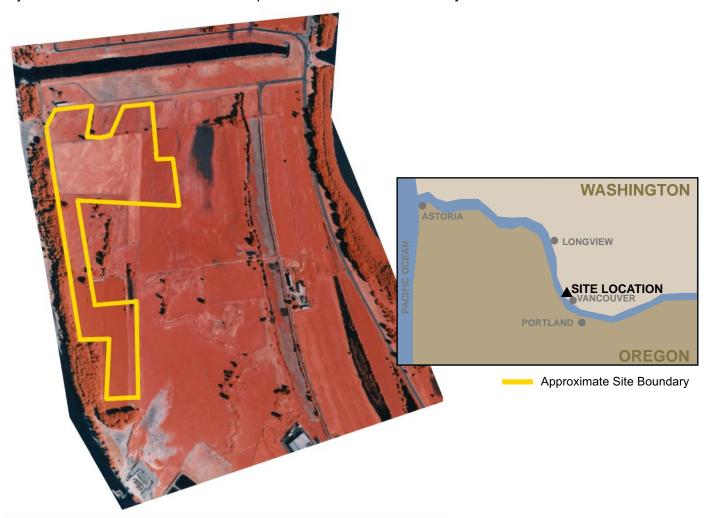
Elevation: 10 to 20 feet above Mean Sea Level

Owner: Port of Vancouver

Description: The site is made up of flood plain deposits. The property is bounded on the north by a farm, the east by agricultural land, the south and west by an undeveloped/forested area, and the west by the Columbia River. About 1/4 mile south-southeast of the subject property is an industrial area, that is occupied by an aluminum plant and docking facilities. A strip of woodland runs adjacent to the property and separates the disposal area from the Columbia River.



Site improvements on the beach include a picnic area and restroom facility. East of the forest, the property is developed for agricultural use and contains pastures and plowed fields. A shallow, 40-feet long rectangular excavation was observed adjacent to the northern end of the subject property (offsite). Two ponds, 1/2 mile apart and connected by a creek that runs north-south along the boundary, are located adjacent to and offsite from the central portion of the eastern boundary.



Fazio A, W-97.1

Size: Approximately 27 acres

Elevation: 10 to 40 feet above Mean Sea Level

Owner: New Columbia Garden Co.

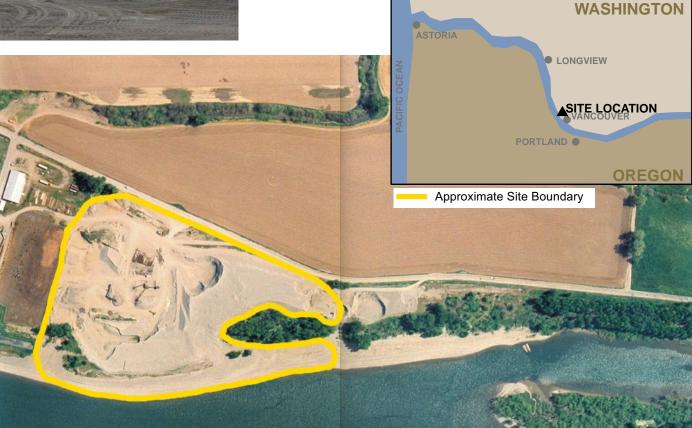
Description: Flood plain deposits are almost entirely covered with sand and gravel material dredged from the Columbia River. The site is bounded on the north by the Fazio Brothers/New Columbia compound, the east by NW Lower River Road and agricultural farmland, the south by

forest, and the west by the Columbia River. Roughly in the center of the site is the mining operation.

The north-northwest portion of the property is being used as a feedlot for cattle. The northeast corner is used as an equipment storage yard. On-site improvements include a truck scale, two office trailers, and a

drainage system for the material dredged from the Columbia River. Prior to the mining operation, the property was reportedly used for agricultural purposes. A pond for the cattle is present on the north-western corner of the property. A 3,000-gallon (est.) former underground storage tank (UST) is on the site. The adjacent Fazio Brothers/New Columbia Garden Co. compound has an Aboveground Storage Tank (AST) farm, pesticide shed, and a maintenance shop.







Fazio B, W-96.9

Size: Approximately 17 acres

Elevation: 10 to 40 feet above

Mean Sea Level

Owner: New Columbia Garden Co.

Description: The site is bounded on the north by a dairy farm and pasture. On the east it is bounded by NW Lower River Road



WASHINGTON

LONGVIEW

and agriculturally developed land and on the west by the Columbia River. The Fazio brothers and New Columbia Garden Co. compound sits along the southern boundary. In the past, Columbia River dredge material was disposed of in the western and northern portions, making them approximately 30 feet above the surrounding area. The eastern portion of the site is situated approximately 10 feet above MSL, and slopes slightly to the north.

The western and northern portions of the property contain a cattle feedlot, while the eastern portion is open pasture. Onsite improvements are limited to a boathouse and outhouse located on the beach of the

Columbia River.

Two ponds for the cattle are present along the western portion of the site. Along the eastern boundary is a ditch that runs parallel to NW Lower River Road. No wastewater services exist on the property.



Lonestar, O-91.5

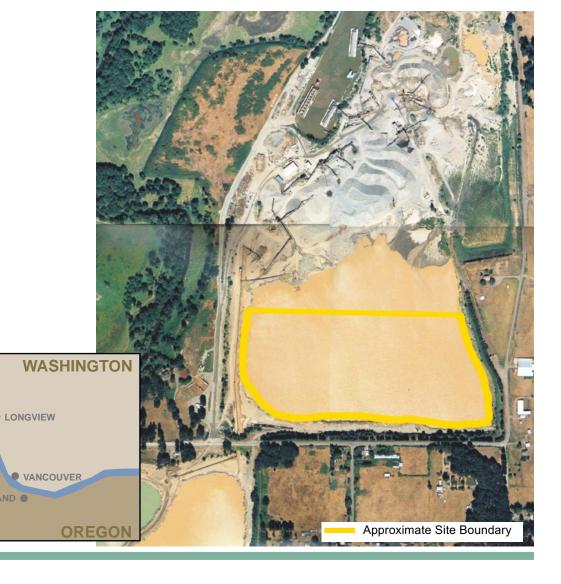
Size: Approximately 45-acre site

Elevation: 25 feet above Mean Sea Level

Owner: Northwest Aggregates (Glacier)

Description: The property lies on the south-eastern corner of a large open-pit mining operation. The site boundary is the 45-acre pit, although the 1 million yards will fill only a small segment. There is standing water in the open pit. The Santosh Wildlife Preserve borders the property to the east. The site is currently covered in sand and water and no improvements have been made.





SITE LOCATION A

PORTLAND •

ASTORIA

Railroad Corridor, O-87.8

Size: Approximately 12 acres

Elevation: 5 to 20 feet above Mean Sea Level

Owner: Port of St. Helens

Description: Since 1991 the disposal site and the remaining 49-acre site adjacent to it have been primarily vacant or used for storage. Several groundwater monitoring wells were observed during the site reconnaissance. The site is vegetated with low-lying grasses, shrubs, and weeds. It is unknown whether the former creosote pipeline, which ran across the subject property, was completely removed. No water service exists on the property. Soil and groundwater have been affected by past industrial operations at the site. Creosote constituents have contaminated the site. The site is proposed for disposal of rock removed from the channel.

Most of the subject property lies on a floodplain that has been covered with material dredged from the Columbia River.

Moderately steep 15- to 20-foot banks drop off along the shoreline into the Multnomah Channel and Scappoose Bay. The site is bordered on the north by Boise Cascade (St. Helens' pulp and paper mill); adjacent to the south of the site is a single warehouse; across the railroad tracks is an undeveloped, forested area. A railroad spur borders the site to the west. To the east is the Multnomah Channel and the mouth of Scappoose Bay.



Approximate Site Boundary

Austin Point, W-86.5

Size: Approximately 26-acres

Elevation: 5 to 30 feet above Mean Sea Level

Owner: Port of Woodland

Description: Nearly all of the Austin property has been covered in the past with material dredged from the Columbia River.

The northern portion of the site is currently leased to a heavy equipment, crane, and rigging training school, West Coast Training, Incorporated (WCT), and has relatively little relief. This portion of the property consists of mostly open, level, sand-covered land, devoid of vegetation. One water supply well house is located on the property.

The southern part of the property is leased to Aaron Myers, who uses this land as pasture for four horses. This portion of the site has slightly undulating topography. A dike runs along the western edge of the property and is elevated above the site by about 5 to 10 feet.

There are three double-lined ASTs in the WCT maintenance shop (offsite). There is no water service to the property. One groundwater well is present onsite, due west of the access road that enters the WCT compound.



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Sand Island, O-86.2

Size: 28 Acres

Elevation: 5 to 20 feet above Mean Sea Level

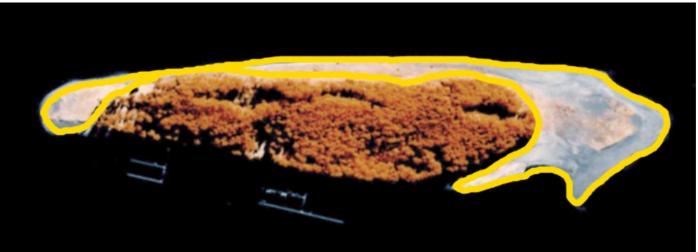
Owner: Port of St. Helens

Description: Sand Island is adjacent to the town of St. Helens, Oregon. The site is currently a disposal site for maintenance dredging. It occupies most of the entire island

and is 4,600 feet long. There are no improvements on the island and no vegetative cover on the disposal area that fringes the island. The sand beach is operated seasonally as a recreational facility by the City of St. Helens. This will be a beach nourishment site.







Approximate Site Boundary

Reichold, O-82.6

Size: Approximately 49 acres

Elevation: 10 to 20 feet above

Mean Sea Level

Owner: Morse Brothers, Inc.

Description: The Coastal Plant (63149 Columbia River Highway) is located to the west, and across Columbia River Highway. It owns the pipeline that bisects the site. The

site is bounded to the north by Deer Island Slough, to the east by the Columbia River, to the south by the outfall of McBride Creek, and to the west by single-family residences and a cemetery.

Although the topography is nearly level across the entire site,

a distinct ridge separates the subject property from the developments to the west. The center is relatively level, but slopes along the northern, eastern, and southern edges toward Deer Island Slough, the Columbia River, and McBride Creek.

The Morse Brothers' mining operation at the northern end of the property has created an approximately 20 feet deep excavation encompassing about 2 acres. A UAN-32 solution pipeline runs from the Coastal Plant to the end of the docking pier. The majority of the site is open field surrounded by forest.

Standing water, most likely from precipitation runoff, has been observed on the property within the western portion of the mining excavation. This pit water was bermed to

prevent flooding within active excavation area.

Morse Brothers officials stated that the Coastal Plant pumps water from the Columbia River to use for both fire suppression and cooling water at their facility. This waterline is located beneath the paved access road that parallels the UAN-32 pipeline.



WASHINGTON

Martin Bar, W-82.0

Size: Approximately 32 acres

Elevation: 10 to 25 feet above

Mean Sea Level

Owner: Port of Woodland and Washington

Department of Fish and Wildlife

Description: The property is divided into two separate rectangle-shaped parcels, separated by a low vegetation area and Lions Day Park, that have been covered in the past with material dredged from the Columbia

River. As a result, the site is slightly elevated (10 to 15 feet) above surrounding properties, and has a slightly undulating topography.

The subject property consists primarily of open field used for raising cattle. Onsite improvements include a navigational aid (beacon) and groin (wood and steel structure located in the river and placed perpendicular to the shoreline), feedlot/pasture fencing, a shed, an outhouse, and several roads. The dredged material has a cover of grasses, scattered cottonwoods (mainly on the northern parcel of the subject property), and



Undeveloped land is present on the adjacent property to the north, a farm and agricultural land are adjacent to the east, and a RV park is adjacent to the south of the property.



Martin Island, W-80.0

Size: 34 acres

Elevation: 0 to 10 feet above Mean Sea Level

Owner: Robert and Richard Colf

Description: This is a project mitigation site that uses dredged material disposal. The 34-acre lagoon on Martin Island would be filled to just below water level to create a wetland/intertidal marsh. The site was historically excavated for road material during the construction of nearby I-5. The lagoon itself is ringed with vegetation. The rest of the island is primarily used for livestock grazing. One house exists on the island and is used by those tending the livestock. There is no road access to Martin Island.





Approximate Site Boundary

Lower Deer Island, O-77.0

Size: 29 acres

Elevation: 0 to 15 feet above Mean Sea Level

Owner: Arnold Leppin of Hillsboro, OR

Description: The majority of the Lower Deer Island site is a low plateau formed by past deposition of dredged material. The subject site is currently used as pastureland for cattle and as a borrow pit to maintain dikes in the Deer Island Diking District. A natural gas pipeline and fiber optic cable cross the parcel from roughly southeast to northwest. Grasses cover most of the open areas, while some landward portions of the subject property are covered with young cottonwood trees. No water service exists on the property.





Sandy Island, O-75.8

Size: Approximately 30-acre bar island

Elevation: 5 to 20 feet above Mean Sea Level

Owner: Foss Redevelopment Company

Description: In the past, most of the property was covered with material dredged from the Columbia River, making the topography of the island relatively flat with a slight slope to the south. Steep 10- to 15-foot banks were observed along the north-northeast portion of the site. The only site improvements are dikes to contain dredged material from maintenance dredging.



Northport, W-71.9

Size: Approximately 27 acres

Elevation: 0 to 10 feet above Mean Sea Level

Owner: Port of Kalama

Description: Most of the peninsula and the adjoining properties to the south have received fill from past dredging operations. Sparse grasses cover most of the dredge material. Along the eastern length of the property is a narrow wooded section. A tidal flat, which extends southward from Carrolls Channel, is located just east of the site. A lowland marsh surrounds this tidal flat and extends to the northeastern fringe (onsite) of the property. The wetland will be avoided. Trojan Nuclear Power Plant is situated across the Columbia River and less than one mile to the southwest. Ground surface generally slopes away from the center of the peninsula, towards the surrounding water bodies (the Columbia River, Carrolls Channel, and the tidal flat). The property is oblong-shaped and the majority of it is sparsely vegetated. Most of the property is heavily crossed with vehicle and heavy equipment tracks from filling/dredging operations.

The adjoining areas to the south of the property contain open, dredge spoil-covered land. There is a steel mill to the south (Messer MG Industries).

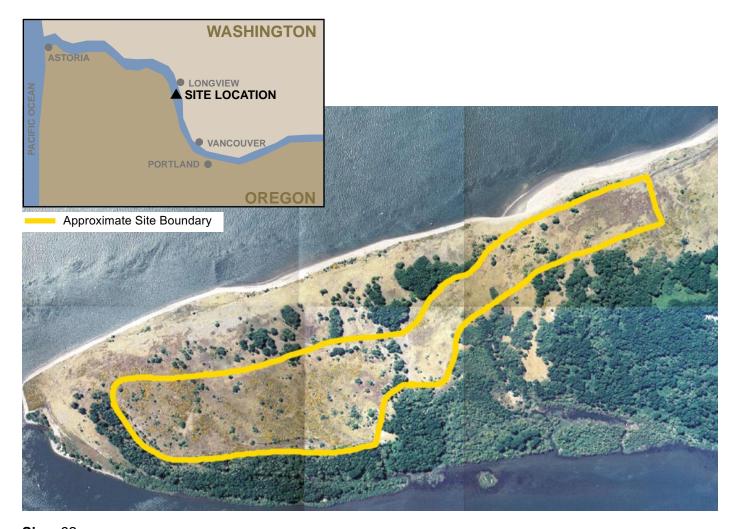
The site is used currently to mine sand and gravel that is for sale.







Cottonwood Island, W-70.1



Size: 62 acres

Elevation: 10 to 30 feet above Mean Sea Level

Owner: Dr. Gene Davis of Tigard, OR (west), the Washington Department of Natural Resources (central), and Delta Trust (eastern)

Description: Cottonwood and Howard Islands were once separate, but are now contiguous. Nearly all of the subject property has been covered in the past with dredge material. The majority of the island is relatively level and situated approximately 20 feet above the Columbia River with steep banks dropping off to both the Columbia River and Carrolls Channel along portions of the shoreline. A pond and wetlands area are located 1/2 mile northwest of the site. The disposal site is set back 300 feet from the Columbia River and side channel shorelines to avoid ESA Critical Habitat.

The property is nearly devoid of development except for the presence of navigational aids (beacons), groins (wooden piles placed perpendicular to longshore current), and a few campsites. The property is roughly kidney shaped and is located at a northwest trending bend in the Columbia River. There is no water service to the property.

Howard Island, W-68.7

Size: 200 acres

Elevation: 10 to 30 feet above Mean Sea Level

Owners: Dr. Gene Davis of Tigard, OR (west), the Washington Department of Natural Resources (central),

and Delta Trust (eastern)

Description: Nearly all of the property has been covered in the past 40 years with material dredged from the Columbia River. The site is roughly crescent shaped and relatively level. Steep 20-foot banks drop off to both the Columbia River and Carrolls Channel along portions of the shoreline. A lowland area with a pond and wetlands area is located adjacent to the north-northeast boundary of the property near Carrolls Channel. A small drainage channel runs north from the pond into Carrolls Channel. The wetland will be avoided during disposal. The northwest and northeast portions of the site are forest. Except for the presence of navigational aids and groins, the property is devoid of development. There is no water service or access to the island property.



International Paper Rehandle, W-67.5

Size: 29 acres

Elevation: 10 to 20 feet above

Mean Sea Level

Owner: Port of Longview

Description: The site is bounded on the north and east by vacant lots, the south by the Columbia River, and the west by a Pacific Fibre wood products facility. The

topography of the property was altered by the placement of dredged material, resulting in a relatively flat to gently undulating topography. Steep 10-to-15-foot banks slope off to the north, east, and west from the dredge pile to the adjoining piles. The southern end of the property drops gradually to the Columbia River.

The property is zoned for heavy manufacturing. It is currently being used as a receiving site for dredged material. Improvements on the property include a drainage structure used for dewatering the dredge material.



The port is currently marketing sand from the property.



Rainier Beach, O-67.0

Size: 52 Acres

Elevation: 0 to 10 feet above Mean Sea Level

Owner: Rainier Waterfront Development, Inc. (Michael Avent)

Description: Rainier Beach is currently privately owned. The site was cleared and was initially used for dredged materials following the eruption of Mt. St. Helens in 1980. The site is currently covered by dredged material deposited there from maintenance dredging. It is bordered on the north by an active log decking yard and on the east by a railroad line that parallels the entire site.

There are no improvements on the site and no vegetation cover. There is rip-rap along the Columbia River that borders the site to the east.





Rainier Industrial, O-64.8

Size: Approximately 53 acres

Elevation: 5 to 30 feet above

Mean Sea Level

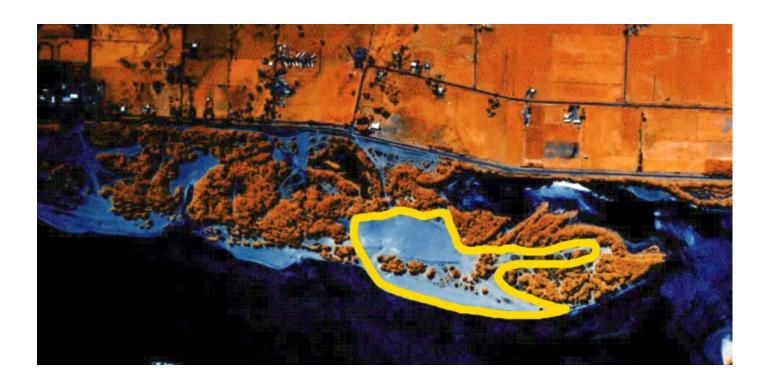
Owner: Oregon Division of State Lands

Description: The entire Dibbley Point peninsula on which the site is located has received dredge spoils from past dredging operations. Ground surface generally slopes away from the center of the peninsula, toward the

Columbia River to the north and toward a backwater slough off the Columbia River to the south. The southeast corner of the property contains an active sand and gravel mining operation. Dredge spoils in this area rise about 10 to 20 feet above the surrounding area.

Approximately 1/4 mile east of the property is the United States Gypsum (USG) sheet-rock plant. The southeast portion of the property is currently being mined for sand and gravel.





Lord Island, O-63.5

Size: Approximately 46 acres

Elevation: 0 to 30 feet above Mean Sea Level

Owner: Oregon Division of State Lands

Description: Most of the subject property has been covered in the past with material dredged from the Columbia River. The adjacent (downstream) portion of Lord Island, to the west and northwest of the property, is mostly covered with riparian forest and lowland marsh. Steep 20- to 25-foot banks drop off along the edges of the dredge pile to the Columbia River and the offsite portion of Lord Island. The island was historically formed from dredged material. The central portion of the disposal site is relatively level.

The disposal site is diked. There are no other improvements. Offsite (downstream) portions of Lord Island contain slack water, lowland areas, and marsh. Wooded areas extend along the southern and western boundaries of the site. These will be avoided.



Reynolds Aluminum, W-63.5

Size: Approximately 13-acre site

Elevation: 5 to 30 feet above Mean Sea Level

Owner: Reynolds Aluminum

Description: The property is bordered on the northwest, northeast, and southeast by the former Reynolds Aluminum plant, which is now closed. The entire site is diked and used for disposal. Reynolds Aluminum has used this site in the past as a disposal site for the dredging of the access channel from the main Columbia River Channel to their docking facility. The capacity at this site is limited. The property has been covered in dredge material that is being sold under contract. The only improvement on the site is a drainage system for the material dredged from the Columbia River.



Mount Solo, W-62.0

Size: Approximately 50 acres

Elevation: Approximately 10 feet above Mean Sea Level

Owner: Radakovich family

Description: The property is bounded on the north by a meandering surface water drainage, the east by a Cowlitz County Consolidated Diking District drainage, the south by a dike and the Columbia River, and the west by an undeveloped field.

The topography is nearly level across the entire site. The dike has gentle north and south slopes, and separates the majority of the site from the Columbia River. The center of the site has a slight depression, which was partially filled with water during the site reconnaissance. The northern half of the site slopes slightly to the north-northwest into the meandering surface water drainage ditch. To the west, the topography is relatively flat and similar to that of the subject property

The site has been vacant since 1996. The majority of the adjacent property to the north appears to be an equipment storage yard for Terra Firma, Inc. Adjacent to this property, to the northwest, is the Mt. Solo Landfill. Adjacent to the east of the property, and across the diking district drainage, is a disposal pond. At the southeast corner of the property (offsite) are a Cowlitz County Consolidated Diking District Number 1 pumping station and four large Bonneville Power Administration (BPA) high-voltage towers. West of the

site is an undeveloped field that has historically been used for agricultural purposes.

Standing water was observed in the center of the property as well as in two drainage ditches. There are no wastewater services at the property.



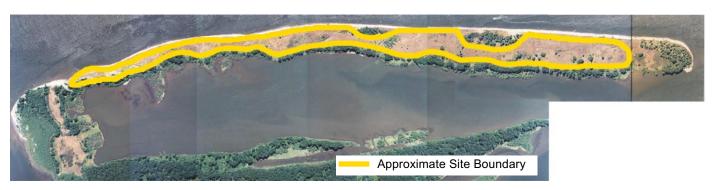
Hump Island, W-59.7

Size: 69 Acres

Owner: Washington Department of Fish and Wildlife/Washington Department of Natural Resources.

Description: Hump Island is a long thin island located between Walker Island and the Columbia River. It is approximately 9,500 feet in length with an average width of 600 feet. There are clusters of cottonwoods on the north and south ends of the island. The site is currently covered by disposal material deposited during maintenance dredging.





Crims Island, O-57.0



edges of the sand pile to the Columbia River and adjacent offsite portions of Crims Island. The oblong-shaped property is approximately 3,300 feet long by 500 feet wide and is diked. It is situated along the upstream end of the island.

A narrow slough is located on the south-southwest side of the site, and nearly separates the site from the main body of Crims Island. Wooded areas extend along the southern and western boundaries of the property. These wooded areas will be avoided during disposal.

Port Westward, O-54.0

Size: Approximately 50-acre site

Elevation: 5 to 20 feet above

Mean Sea Level

Owner: Port of St. Helens

Description: The site is bordered on the northeast by the river and on all other sides by a PGE gas generating facility. The site was once a storage facility and also the location for US Army materiel and weapons loading construction during the World War II era. The entire site is currently grassy open space with no structures. A decommissioned railroad line runs the length of the property.









Brown Island, W-46.3/W-46.0

Size: 72 Acres

Elevation: 5 to 10 feet above Mean Sea Level

Owner: Washington Department of Natural Resources

Description: Brown Island is located at the upper end of Puget Island and is an established disposal site for mainte-

nance dredge material. There is no tree cover on the site. Brown Island is bordered by White Island. A low swale separates the two and is inundated seasonally. No other improvements are located on the island.







Puget Island, W-44.0

Size: Approximately 100-acre site

Elevation: 0 to 15 feet above Mean Sea Level

Owner: Vik family

Description: The site is bordered on the north, west, and east by other agricultural lands and by private residences to the south. The current use of the subject property is agriculture. There are several structures related to the farming operation and one home will be relocated to accommodate material disposal.











WASHINGTON

Approximate Site Boundary

James River, O-42.9

Size: 53 Acres

Elevation: 15-30 feet above Mean Sea Level

Owner: Fort James (Georgia Pacific)

The site is located below the mouth of the Westport Slough. The original site was 59 acres, but was reduced to 53 acres to avoid a small wetland. The site was used previously for maintenance dredging disposal and is currently covered with disposal material and small clusters of trees and ground vegetation.









Approximate Site Boundary

Tenasillahe Island, O-38.3

Size: 42 acres of a 75-acre island

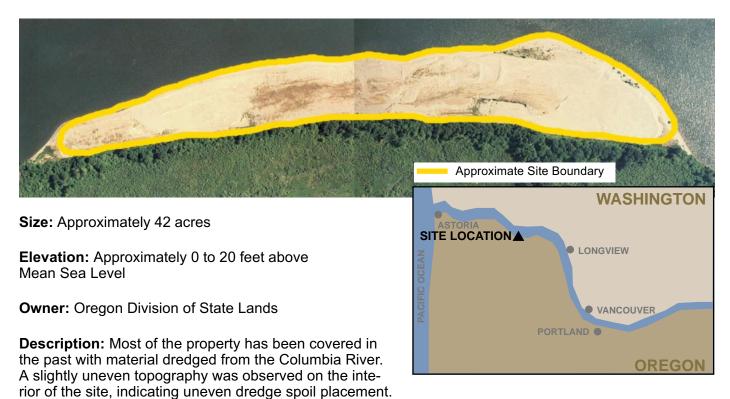
Elevation: 0 to 10 feet above Mean Sea Level

Owner: Oregon Division of State Lands

Description: The property has been covered in the past with material dredged from the Columbia River. The majority of the island is relatively level and elevated above the Columbia River. Steep 10-foot banks drop off to both the Columbia River and Clifton Channel along portions of the shoreline. A lowland marsh is located adjacent to the northeast edge of the property. The site is nearly devoid of improvements except for temporary campsites and an outhouse. No wetlands will be impacted by disposal.



Welch Island, O-34.0



The interior of the property is bermed, and steep 10-foot banks drop off from the site to the Columbia River and along the southwestern side of the property. A lowland marsh and riparian forest is located adjacent to the southwest of the property. There is no water service to the property.

Skamokawa, W-33.4

Size: Approximately 11-acre site

Elevation: 10 to 30 feet above Mean Sea Level

Owner: Port of Wahkiakum, City of Skamokawa

Description: The site is currently used for material disposal from the Columbia River. A day-use park borders the property to the southeast and northeast. The southeast corner of the property contains an active sand and gravel mining operation. There are no other improvements on the site. Only about 50% of the park is covered with sand, which is sold to offset operating costs.









Pillar Rock, O-27.2

Size: Approximately 56 acres

Elevation: 0 to 25 feet above Mean Sea Level

Owner: Oregon Division of State Lands

Description: The property occupies the majority of a roughly east-west trending bar island and is within the Lewis and Clark National Wildlife Refuge. Most of the site has been covered in the past with sandy material dredged from the Columbia River. The topography of the island interior is relatively level, as the dredged material has been evenly distributed across it. Steep 10- to 25-foot banks exist along portions of the dredge pile.

A tidal flat/marsh area is located (offsite) along the southern side of the island. Improvements to the site include two pile dikes that extend out from the northwest side of the site into the Columbia River channel. Wetlands will be avoided during disposal.





Miller Sands, O-23.5

Size: Approximately 151 acres

Elevation: 0 to 20 feet above Mean Sea Level

Owner: Oregon Division of State Lands

Description: The site is within the Lewis and Clark National Wildlife Refuge. Much of the subject property has been covered with material dredged from the Columbia River. The site has an undulating topography. Steep10-foot banks drop off from portions of the interior to the north and south sides of the island.

An offsite tidal flat/marsh area and narrow channel are located to the south of the site. The southeastern (upstream) end of the site is vegetated with small shrubs and trees. There is no water service to the property.







Rice Island, W-21.0 and O-21.0

Size: Approximately 228 acres

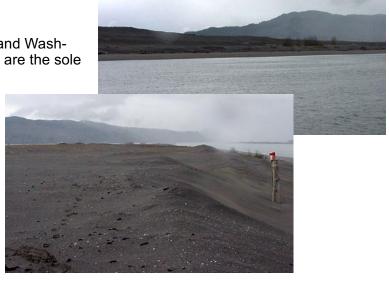
Elevation: 0 to 40 feet above Mean Sea Level

Owner: Oregon Division of State Lands (DSL) and Washington Department of Natural Resources (DNR) are the sole

owners.

Description: The property occupies the majority of a roughly northeast-southwest trending bar island. The island was created in the past with material dredged from the Columbia River. The topography of the island interior is relatively level, as the dredged material has been evenly distributed across it. Steep 20- to 35-foot banks drop off from the dredge pile.

A small amount of standing water, which was located within the retention pond used for dredge spoil dewatering, was observed on the property. Improvements observed onsite include a retention pond and metal drainage structure for the dredge material dewatering. The downstream end of the island is used by terns and access to the island is limited. Rice Island will be a future maintenance dredging disposal site after Channel Improvement.





No aerial photo available for this site